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Sheet 1 of 7  
Atty. Docket No.ALLE0003-100 Serial No.: Not yet assigned  
Filing Date: Herewith  
Title: METHODS OF IDENTIFYING COMPOUNDS THAT ALTER TOXIN  
PERSISTENCE AND/OR PROTEASE ACTIVITY  
Inventors: Fernandez-Salas, et al.  
Attorney: Quan L. Nguyen Phone No.: 215-665-2158

Figure 1

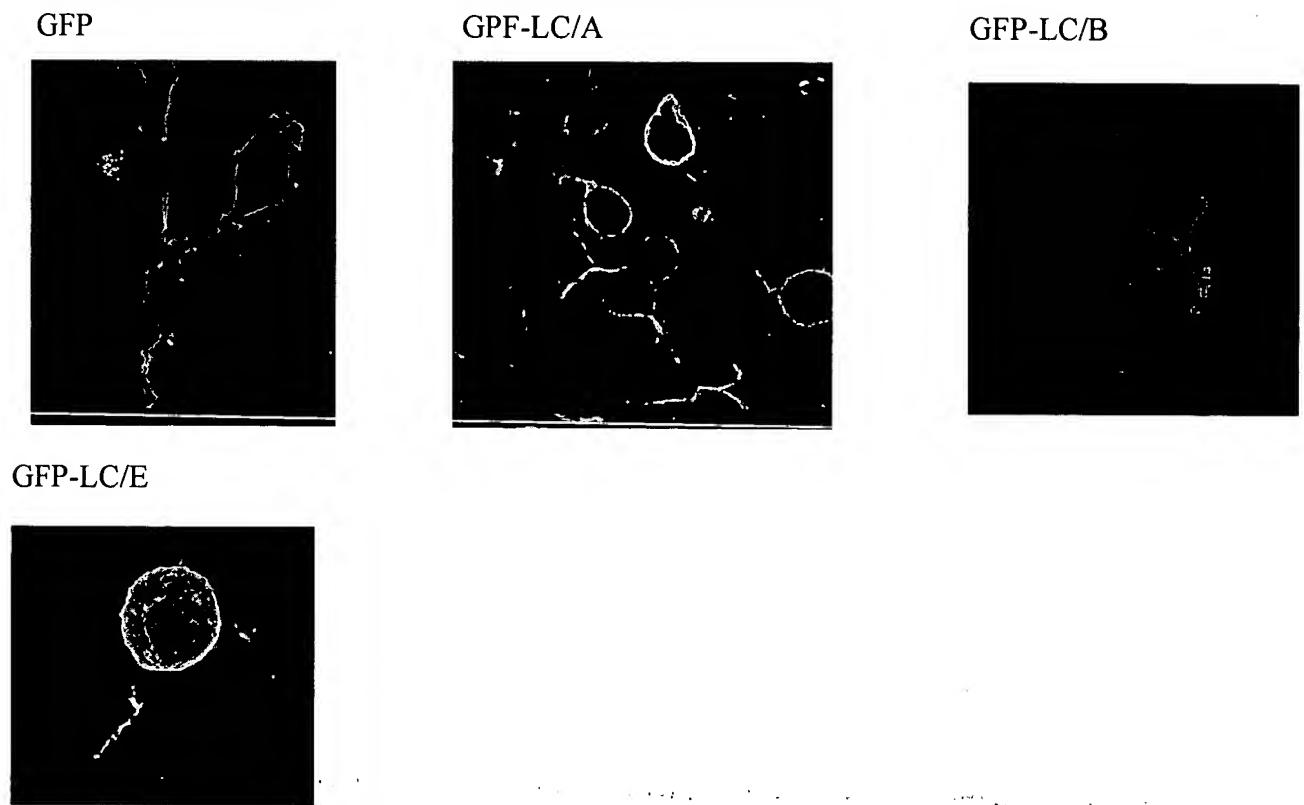


Figure 2

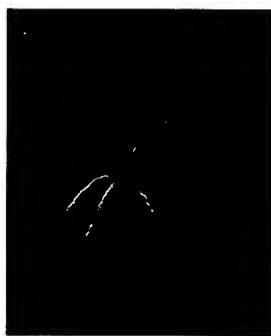
GFP



GFPLC/A



GFP-LC/B

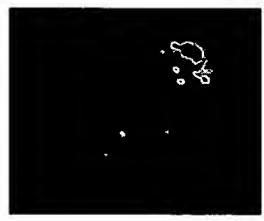
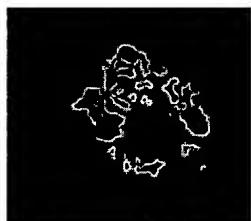


GFP-LC/E



Figure 3

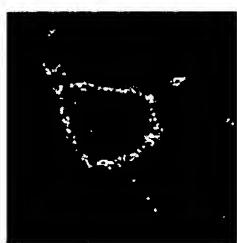
A.



B.



C.

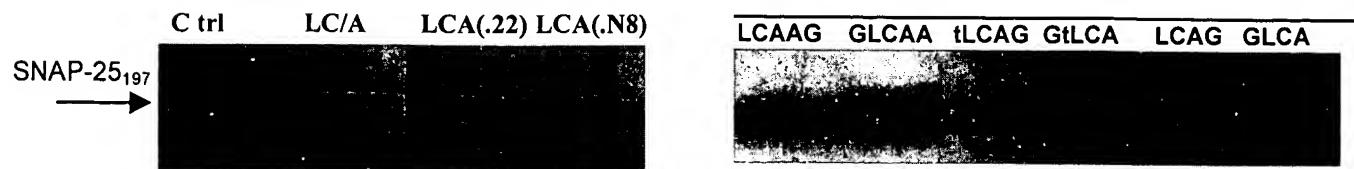


D.

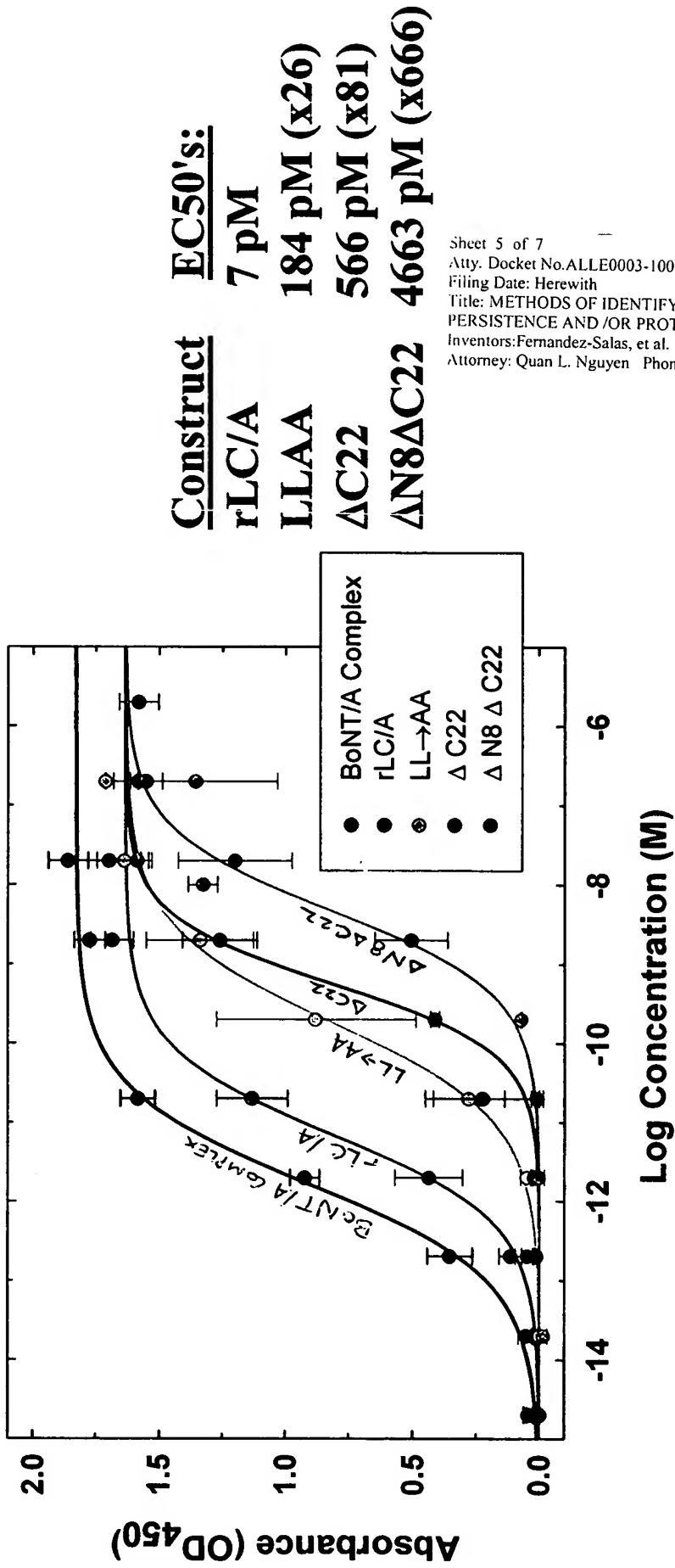


Sheet 4 of 7  
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Figure 4

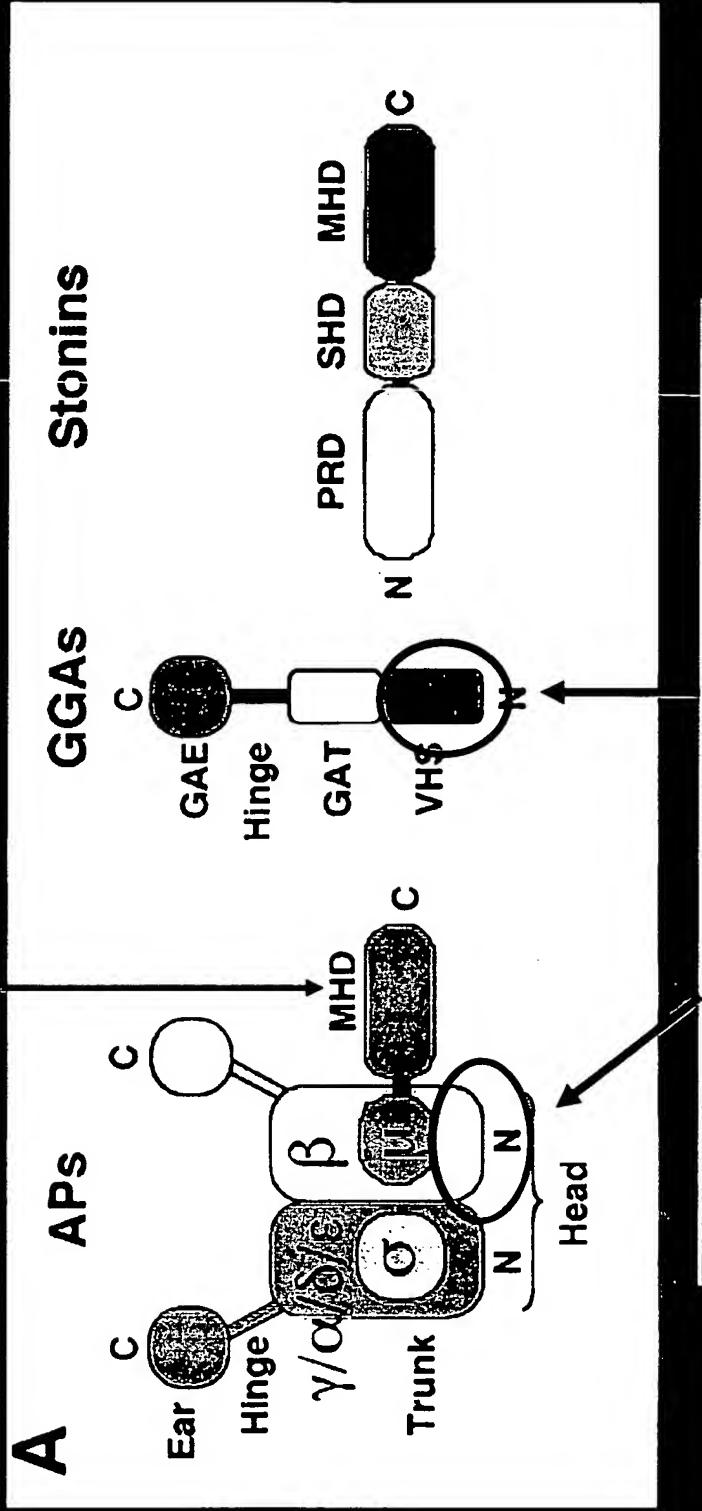


# Activity of LC/A mutants towards SNAP25



# Schematic representation of Adaptins

Binds YXX $\phi$ -type signals



Interact with acidic di-leucine motifs

Figure 6A

# Adaptins: Localization and Function

**AP-2** mediates rapid endocytosis from the plasma membrane

**AP-1, AP-3 and AP-4** mediate sorting events at the *trans*-Golgi (TGN) network and/or endosomes

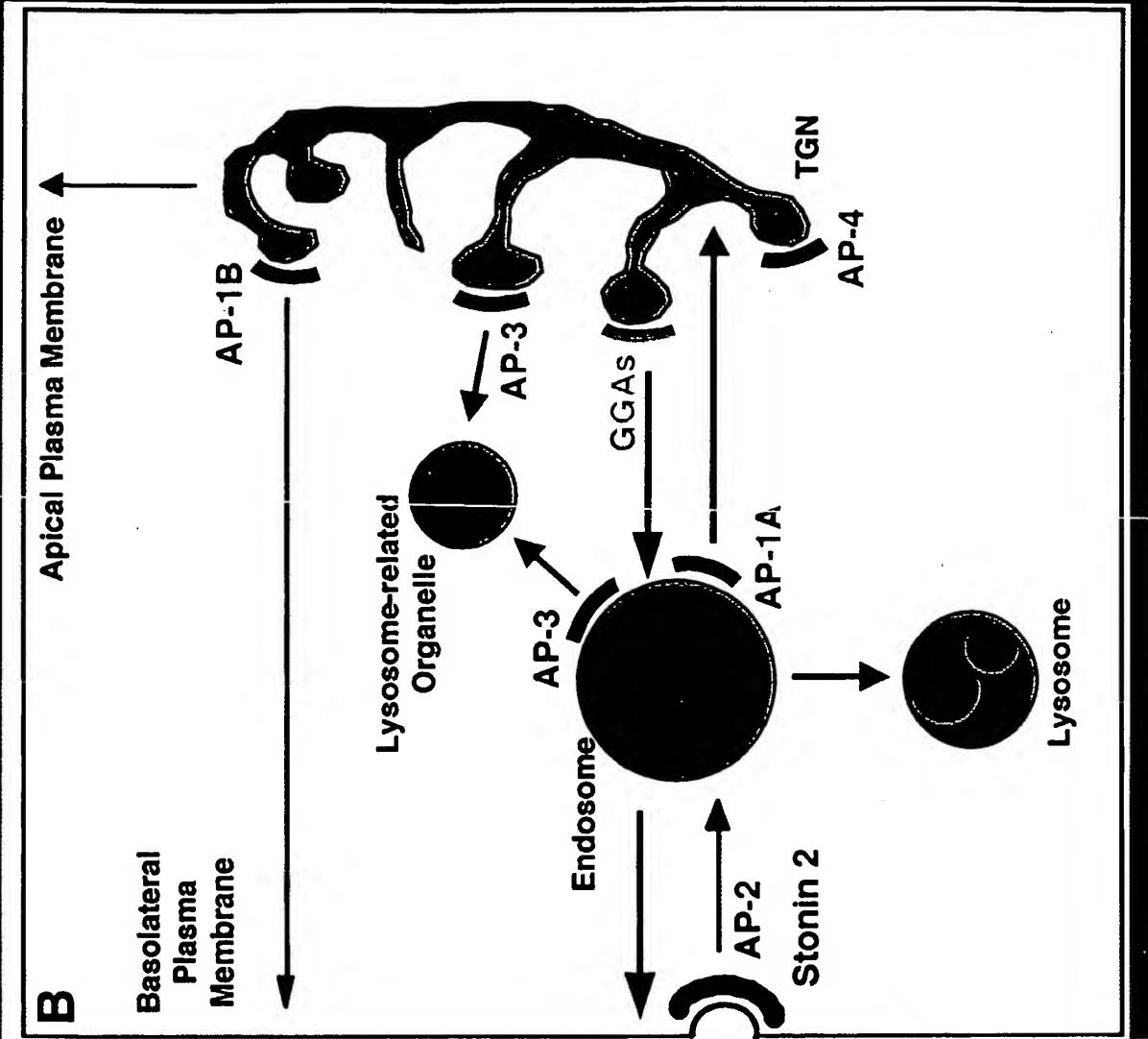


Figure 6B